ABSTRACT

A crosstalk compensator provides for the compensation of mismatches in mutual coupling capacitances between adjacent parallel wire pairs. The aforementioned mismatch in mutual coupling capacitance may arise in a customer premises wiring system which may consist

5 of at least the drop cable, cable run and/or receiver cable (from the service drop point to a digital device). Mismatches in the mutual coupling capacitances in the customer premises wiring system may give rise to undesirable levels of premises end crosstalk (PEXT) interference for which the crosstalk compensator has been designed to mitigate by providing a system and method for the connection of compensating capacitors between pairs of conductors selected from

10 the plurality of subscriber loop conductors such that the mismatch is reduced or eliminated. The crosstalk compensator may be implemented in a variety of formats, including firmware or program code residing on a computer-readable medium, hardware, or a combination thereof.